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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/889,610	01/08/2002		Mailvaganam Thavalingam Sivasithambaram Pillai	P0557/7045 DRW 6949	
23628	7590	14/20/2003		EXAMINER	
		LD & SACKS,	ANTHONY, JOSEPH DAVID		
FEDERAL RESERVE PLAZA 600 ATLANTIC AVENUE				ARTUNIT	PAPER NUMBER
BOSTON, N			1714		

DATE MAILED: 11/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>•</u>	Application No.	•	Applicant(s)
	09/889,610		PILLAI ET AL.
Office Action Summary	Examiner		Art Unit
•	Joseph D. Antho	nnv	1714
The MAILING DATE of this communication a			
Period for Reply	•		
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommunication if NO period for reply is specified above, the maximum statutory perions Failure to reply within the set or extended period for reply will, by state. - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	I. 1.136(a). In no event, how eply within the statutory mi od will apply and will expire ute, cause the application	vever, may a reply be tim inimum of thirty (30) days SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C.§ 133).
1) Responsive to communication(s) filed on	·		
2a) This action is FINAL . 2b) ☐ Th	is action is non-fin	al.	
3) Since this application is in condition for allow closed in accordance with the practice under	vance except for fo r <i>Ex parte Quayl</i> e,	ormal matters, pro 1935 C.D. 11, 45	osecution as to the merits is 53 O.G. 213.
Disposition of Claims			
4)⊠ Claim(s) <u>1-37</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are withdo	rawn from conside	ration.	
5) Claim(s) is/are allowed.			
6)☐ Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) <u>1-37</u> are subject to restriction and/o	or election requirer	nent.	
Application Papers			
9)☐ The specification is objected to by the Exami			
10)☐ The drawing(s) filed on is/are: a)☐ a			
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corr			
11) The oath or declaration is objected to by the	Examiner. Note th	e attached Office	Action or form PTO-132.
Priority under 35 U.S.C. §§ 119 and 120	_		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a left 13) Acknowledgment is made of a claim for dome since a specific reference was included in the 37 CFR 1.78. a) The translation of the foreign language 14) Acknowledgment is made of a claim for dome reference was included in the first sentence of the foreign language 14.	ents have been recents have been recents have been recented to the certified cestic priority under first sentence of the provisional applications.	ceived. ceived in Applicat have been receive .2(a)). copies not receive 35 U.S.C. § 119(he specification of ation has been receive 35 U.S.C. §§ 120	ion No ed in this National Stage ed. (e) (to a provisional application) or in an Application Data Sheet. ceived. O and/or 121 since a specific
Attachment(s)	ړ. ⊏	Intonios Comme	v (PTO-413) Papar No(s)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	4) L 5) [s) 6) [y (PTO-413) Paper No(s) Patent Application (PTO-152)

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Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-11 and 24-37, drawn to carbonized vegetable-based materials and method of making and their use.

Group II, claim(s) 12-16, drawn to a method of improving the mechanical properties of bitumen by blending fresh and/or carbonized rice husk together with tyre crumb into said bitumen.

Group III, claim(s) 17-18, drawn to a method for improving the mechanical properties of thermoplastic resins by blending in fresh and/or carbonized rice husk

Group IV claim(s) 19-20 and 22-23, drawn to a method of improving the blowing character of rubber or method of improving the scorch time of rubber.

Group V, claim(s) 21, drawn to a method of reducing the cure time of ebonite NR by blending fresh rice husk into ebonite NR wherein said rice husk have a particle size of between 100 and 200 mesh.

2. The inventions listed as Groups I, II, III, IV and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature for Group I claims is "carbonized vegetable-based material". The claims of Groups II, III, IV and IV do not require the blending of a "carbonized vegetable-based material" since fresh rice husk may be used instead. The special technical feature of Group II claims is the blending of "fresh and/or carbonized rice husk together with tyre crumb". The claims of Groups III, IV and V have no requirement for the use of tyre crumbs in their methods. The special technical feature of Group III claims is blending "fresh and/or carbonized rice husk having a particle size between 325 to 400 mesh". The claims of Groups IV and V do not require that the rice husk have a particle size of between 325 and 400 mesh, in fact claims 21 and 23 limit the rice husk to a particle size range of between 100 and 200 mesh. The special technical feature of Group V is the blending on fresh rice husk having a particle size range of 100 to 20

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mesh. Groups I, II, III, and IV have no such requirement because they can use carbonized rice husk.

3. This application contains claims directed to more than one species of the composite material (as an example see claim 10). These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Latex, thermoplastic resins, thermoset plastics, rubbers and elastomeric materials, conductive coating, printing inks, bitumen, and concrete

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. <u>The reply</u> must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- 4. The claims are deemed to correspond to the species listed above in the following manner:
- 1) Composite material= latex (claim 9), 2) composite material=bitumen (claims 12-16),
- 3) composite material=thermoplastic resin (claims 17-18), 4) composite material=thermoplastic resin (claims 24-29), 5) composite material=rubber (claims 19-20, 22-23, and

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30-31), 6) composite material=ebonite NR (claim 21), and 7) composite material=concrete (claims 32-33)

The following claim(s) are generic: 1-8, 10-11, and 34-37.

5. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for obvious reasons.

Examiner Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Joseph D. Anthony whose telephone number is (703) 308-0446 until 12/04/03; after 12/04/03 my new telephone number will be (571) 272-1117. This examiner can normally be reached on Monday through Thursday from 7:35 a.m. to 6:00 p.m. in the eastern time zone. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on (703) 306-2777. The centralized FAX machine number is (703) 872-9306. All other papers received by FAX will be treated as Official communications and cannot be immediately handled by the Examiner. Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0651. The receptionist is located on the 8th floor of Crystal Plaza 3 (e.g. CP-3) and will be the welcome point for all visitors to the building.

Joseph D. Anthony
Primary Patent Examiner
Art Unit 1714

men fulling

11/16/03